Assignment 6

Post Date: 05 June 2017   **Due Date:** 12 June 2017   **Tutorial:** 21 June 2017

Problem 1: Cycles   **5 Points**

Let G be a weighted (not necessarily planar) graph with arbitrary vertex-degrees. Give a method to find a maximum-weighted non-empty cycle in G.

Hint: Find a transformation of G into a 3-regular graph whose nodes can then be replaced by the gadgets from the lecture notes.